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APPLICATION NO.	F.	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/696,139		10/25/2000	Robert A. Sanderson	09850-005005	2871
26171	7590	01/21/2003			
FISH & R			EXAMINER		
1425 K STREET, N.W. 11TH FLOOR				KAMEN, NOAH P	
WASHING	NGTON, DC 20005-3500			ART UNIT	PAPER NUMBER
				3747	
				DATE MAILED: 01/21/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applica	ant(s)						
Office Action Commons	09/696,139		SANDERSON ET AL.						
Office Action Summary	Examiner	Art Uni	t						
	Noah Kamen	3747							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1) Responsive to communication(s) filed on 15 J	<u>lanuary 2003</u> .								
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-fir	al.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4) Claim(s) 45,47-71,74 and 77-93 is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)⊠ Claim(s) <u>69-71</u> is/are allowed.									
6)⊠ Claim(s) <u>45, 47,49-51,54-61,66,68 and 72, 74, 75, 77-93</u> is/are rejected.									
7) Claim(s) <u>48,52,53,62-65 and 67</u> is/are objected to.									
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120			40						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)☐ All b)☐ Some * c)☐ None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domes 			· 121.						
Attachment(s)									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4)	Interview Summary (PTO-4 Notice of Informal Patent Ap Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 45, 47, 49-51, 54-61, 66, 68, and 77-84 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dhenain (FR815794) in view of Lind. Dhenain shows all of the recited elements except for the recited joint. Instead, an additional joint at 13 in the piston is required. Lind shows the recited joint wherein all the degrees of freedom are provided by a single joint at 12. It would have been obvious to one of ordinary skill in the art to use the joint of Lind in Dhenain for its simplicity of construction. In regard to claim 55, the sliding member read on the well-known treatment of nitriding surfaces to reduce wear. In regard to claim 58, to replace a piston with a mere guide rod where additional power is not necessary would have been obvious to one of ordinary skill in the art. In regard to claim 59, the limitation of "permitted" does not require that the drive arm is rotatable.

Claims 72, 74, 75, and 85-93 rejected under 35 U.S.C. 103(a) as being unpatentable over Dhenain in view of Almen. Dhenain shows all of the recited elements except for the recited joint. Instead, an additional joint at 13 in the piston is required. Almen shows the recited joint wherein all the degrees of freedom are provided by a single joint at 15. It would have been obvious to one of ordinary skill in the art to use the joint of Lind in Dhenain for its simplicity of construction. In regard to claim 93, to replace a piston with a mere guide rod where additional power is not necessary would have been obvious to one of ordinary skill in the art.

Allowable Subject Matter



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Claims 69-71 are allowed.

Claims 48, 52, 53, 62-65, and 67 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Noah Kamen whose telephone number is 703 308 1945. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 703 308 1946. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9302 for regular communications and 703 308 7766 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308 0861.

Noah Kamen Primary Examiner Art Unit 3747

nk January 16, 2003